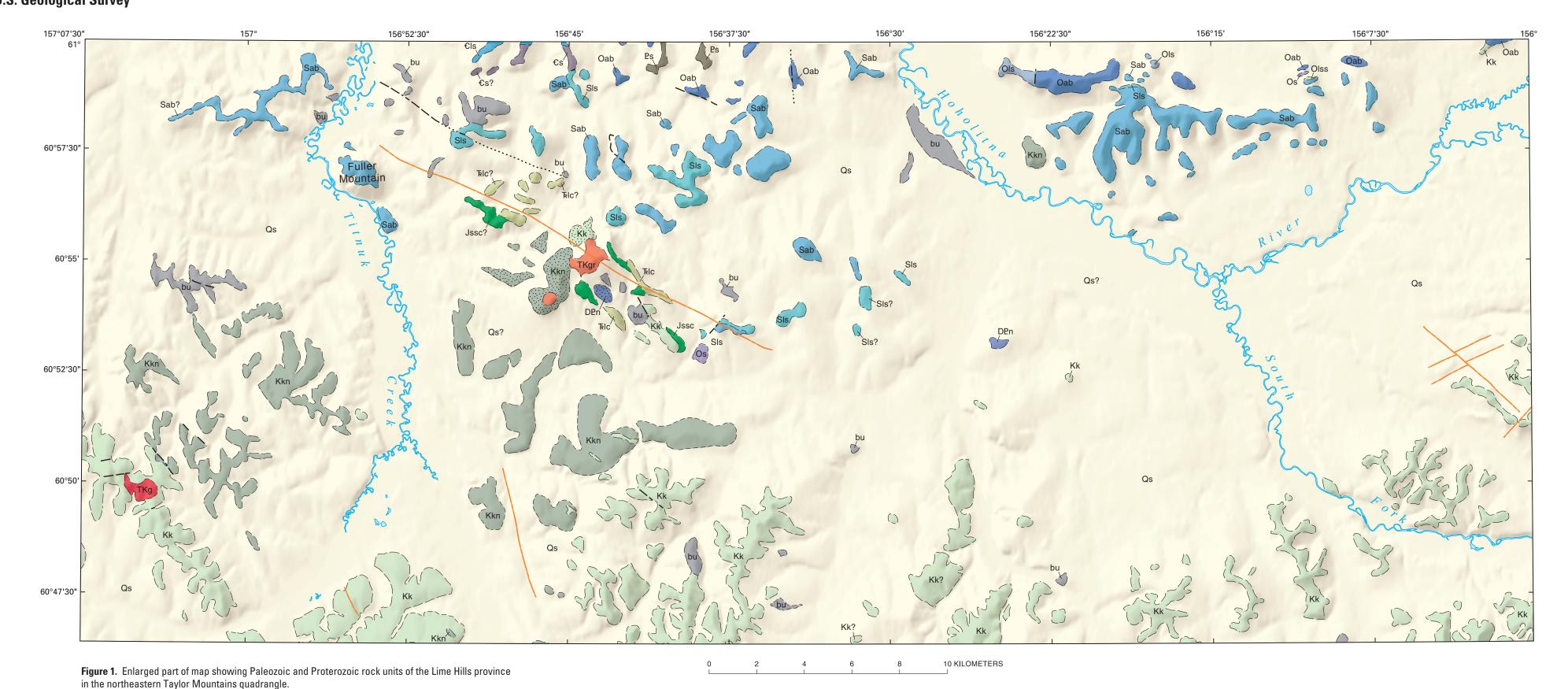
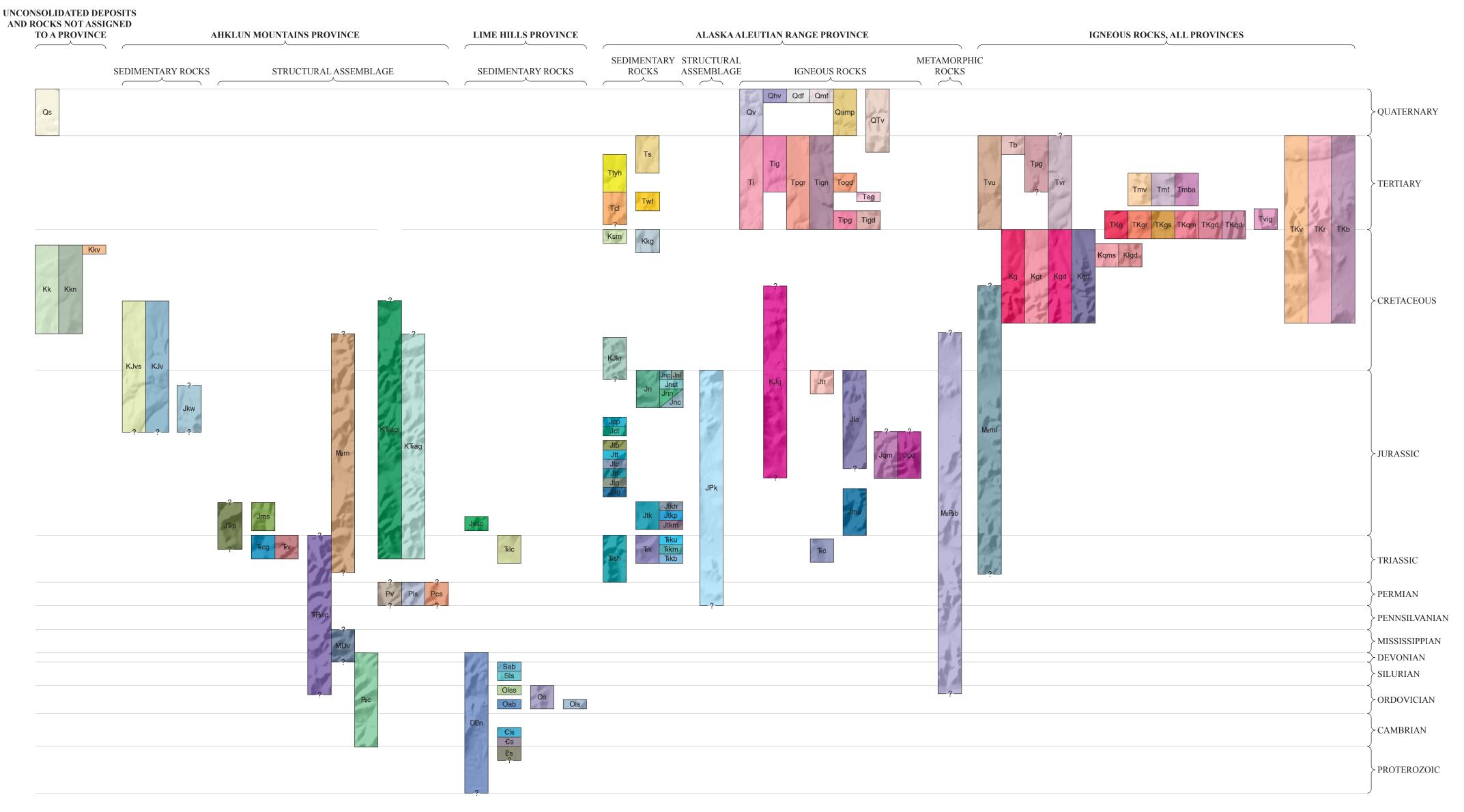
U.S. Department of the Interior U.S. Geological Survey

Scientific Investigations Map 2942 Sheet 2 of 2 Pamphlet accompanies map



CORRELATION OF MAP UNITS

[See Description of Map Units (in pamphlet) for precise unit ages]



LIST OF MAP UNITS

[See Description of Map Units (in pamphlet) for complete unit descriptions. Some exposures on the plotted map are too small to distinguish the color for identification. These units are labeled where possible, and unlabeled units are attributed in the database]

UNCONSOLIDATED DEPOSITS AND ROCKS NOT ASSIGNED TO A PROVINCE

Qs Surficial deposits, undivided (Quaternary) **Bedrock unknown (age unknown)**—Not shown in Correltation of Map Units

Kuskokwim Group, undivided (Cretaceous, Campanian(?) to Albian(?)) Nearshore facies (Cretaceous)

Volcanogenic rocks (Cretaceous(?))

AHKLUN MOUNTAINS PROVINCE

SEDIMENTARY ROCKS

Volcanic and sedimentary rocks (Lower Cretaceous to Middle Jurassic) Olivine basalt and fragmental volcanic rocks (Cretaceous or Jurassic) Graywacke of Kulukak Bay (Upper to Middle Jurassic)

STRUCTURAL ASSEMBLAGE Togiak-Tikchik Complex (Lower Cretaceous to Lower Paleozoic)

Argillite and graywacke, cut by dike swarms (Lower Cretaceous to Upper

Argillite and graywacke (Lower Cretaceous to Upper Triassic)

Sedimentary rocks (Lower Jurassic)

Phyllite and chert (Lower Jurassic and Upper Triassic(?))

Chert and limestone (Upper Triassic)

Volcanic rocks (Upper Triassic)

Rainbow chert (Triassic(?) to Paleozoic(?)) Volcanic rocks (Permian(?))

Limestone (Permian)

Clastic rocks (Permian(?)) Greenstone and schist (Mississippian(?) and (or) Devonian(?))

Black chert (lower Paleozoic(?))

LIME HILLS PROVINCE

SEDIMENTARY ROCKS Chert, sandstone, and siltstone (Lower Jurassic)

Limestone, silty limestone, and chert (Upper Triassic, Norian)

Farewell terrane, Nixon Fork subterrane of Decker and others (1994), undivided (Devonian(?) to Proterozoic)

Algal boundstone (Upper Silurian, Pridoli and Ludlow) Lime mudstone (Upper Silurian, Wenlock to late Llandovery)

Tcherskidium-bearing limestone (Upper Ordovician, Ashgillian)

Shale (Ordovician)

Algal boundstone and lime mudstone (Lower Ordovician)

Lime mudstone (Lower Ordovician)

Limestone (Middle Cambrian)

Clastic and carbonate rocks (Lower Cambrian)

Dolostone, limestone, orthoguartzite, and minor chert (Neoproterozoic(?))

ALASKA-ALEUTIAN RANGE PROVINCE

SEDIMENTARY ROCKS **Sedimentary rocks (Tertiary, Pliocene or Miocene)**

Kenai Group, Tyonek Formation, and Hemlock Conglomerate, undivided (Tertiary, Miocene and Oligocene)

West Foreland Formation (Tertiary, early Eocene and late Paleocene) Copper Lake Formation, undivided (Tertiary, Eocene and Paleocene(?))

Saddle Mountain section of Magoon and others (1980) (Upper Cretaceous,

Kaguyak Formation (Upper Cretaceous, Maastrichtian and Campanian) Koksetna River sequence of Wallace and others (1989) (Lower Cretaceous,

Valanginian, to Upper Jurassic, Kimmeridgian) Naknek Formation (Upper Jurassic, Tithonian to Oxfordian)

Pomeroy Arkose Member (Upper Jurassic, Kimmeridgian and Oxfordian(?))

Indecision Creek Sandstone Member (Upper Jurassic, Kimmeridgian and

Snug Harbor Siltstone Member (Upper Jurassic, Kimmeridgian and Northeast Creek Sandstone Member (Upper Jurassic, Oxfordian)

Chisik Conglomerate Member (Upper Jurassic, Oxfordian)

Chinitna Formation (Middle Jurassic, Callovian) **Paveloff Siltstone Member**

Tonnie Siltstone Member

Tuxedni Group (Middle Jurassic, Callovian to Bajocian) Bowser Formation (Middle Jurassic, Callovian and Bathonian)

Twist Creek Siltstone (Middle Jurassic, Bajocian)

Cynthia Falls Sandstone (Middle Jurassic, Bajocian(?))

Fitz Creek Siltstone (Middle Jurassic, middle Bajocian) Gaikema Sandstone (Middle Jurassic, lower middle Bajocian)

Red Glacier Formation (Middle Jurassic, lower middle Bajocian to lower Talkeetna Formation, undivided (Lower Jurassic)

Horn Mountain Tuff Member

Portage Creek Agglomerate Member Marsh Creek Breccia Member

Kamishak Formation, undivided (Upper Triassic, Norian)

Ursus Member

Middle Member

Bruin Limestone Member

Gray shale and gray volcaniclastic sandstone (Triassic) STRUCTURAL ASSEMBLAGE

JPk Kakhonak and Tlikakila Complexes (Jurassic, Triassic, and Permian(?) or

IGNEOUS ROCKS Volcanic rocks, undivided (Quaternary)

Volcanic rocks (Quaternary, Holocene)

Debris-flow deposits (Quaternary, Holocene)

Volcanic rubble and mudflows (Quaternary, Holocene) **Andesite and dacite domes**

Volcanic rocks, undivided (Quaternary, Pleistocene, or Tertiary, Pliocene)

Alaska-aleutian Range Batholith of Reed and Lamphere (1969)

Intrusive rocks, undivided (Tertiary)

Granite and aplite (Tertiary, Oligocene(?) and younger)

Peralkaline granite

Granodiorite and quartz monzodiorite (Tertiary, Oligocene and late Eocene)

Granite (Tertiary, late Eocene)

Older granite (Tertiary, Paleocene)

Granodiorite (Tertiary, Paleocene) Mafic granitic rocks (Cretaceous and (or) Jurassic)

Trondhjemite (Late Jurassic)

Lamprophyre and basalt dikes (Jurassic)

Granodiorite and quartz monzonite (Jurassic) Quartz diorite, tonalite, and diorite (Jurassic)

Mafic and ultramafic plutonic rocks (Early Jurassic)

Cottonwood Bay and Chilikadrotna Greenstones (Triassic)

METAMORPHIC ROCKS Metamorphosed mafic volcanic and sedimentary rocks (Mesozoic and (or)

IGNEOUS ROCKS, ALL PROVINCES

Volcanic rocks, undivided (Tertiary) Tb

Basaltic volcanic rocks (late Tertiary) Gibraltar Lake Tuff (Tertiary, Pliocene(?) to Oligocene(?))

Felsic volcanic rocks

Volcanic rocks, undivided (Tertiary, Oligocene and Eocene)

Tuffaceous felsic volcanic rocks Basalt and andesite

Ignimbrite (Tertiary, Paleocene)

Volcanic rocks (Tertiary and (or) Cretaceous)

Rhyolite and dacite flows, tuff, dikes, and sills

Granitic rocks, undivided (Tertiary and (or) Cretaceous)

Granite and alaskite

Syenitic rocks

Quartz monzonite and quartz monzodiorite

Monzodiorite and quartz diorite Plutonic rocks, undivided (Cretaceous)

Quartz monzonite and syenite (Late Cretaceous)

Granodiorite (Late Cretaceous)

Kgr Granite Granodiorite

Quartz diorite, tonalite, and diorite

Mafic igneous rocks (Mesozoic(?))

EXPLANATION OF MAP SYMBOLS ———— Contact—Solid where location is certain; long-dashed where location is approxi-

mate; short-dashed where location is inferred; dotted where location is

Fault—Solid where location is certain; long-dashed where location is approximate; short-dashed where location is inferred; dotted where location is concealed Thrust fault—Solid where location is certain; long-dashed where location is

approximate; short-dashed where location is inferred; dotted where location is concealed. Sawteeth on upper plate High-angle thrust fault—Solid where location is certain; long-dashed where location is approximate; short-dashed where location is inferred; dotted where

location is concealed. Sawteeth on upper plate Caldera or crater rim—Solid where location is certain

Moraine—End, recessional, and lateral moraine limit; hachures point toward ice Terrace, erosional, or wave-cut scarp—Hachures point toward water

----- Lineament

Contact metamorphosed rock

Community

Bedrock Geologic Map of the Northern Alaska Peninsula Area, Southwestern Alaska

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